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Weed Handbook

Series 1-30



The control of any weed depends a great deal on early detection of its presence. This booklet was assembled to aid in that process.

If you discover these weeds or you have questions about weed management, you may contact the State Weed Coordinator, County Weed Supervisor, State University, Bureau of Land Management, Forest Service, Soil Conservation Service or County Extension Service.

This booklet assembled by the Wyoming Weed and Pest Council, Box 728, Douglas, Wyoming 82633, Telephone Number (307) 358-2775. Reprints of the cards are also available from the Wyoming Weed and Pest Council.

INDEX

Leafy spurge <i>Euphorbia esula</i> L.	1
Musk thistle <i>Carduus nutans</i> L.	2
Hoary cress (Whitetop) <i>Cardaria draba</i> (L.) Desv.	3
Russian knapweed <i>Centaurea repens</i> L.	4
Canada thistle <i>Cirsium arvense</i> L.	5
Field bindweed <i>Convolvulus arvensis</i> L.	6
Spotted knapweed <i>Centaurea maculosa</i> Lam.	7
Diffuse knapweed <i>Centaurea diffusa</i> Lam.	8
Yellow toadflax <i>Linaria vulgaris</i> L.	9
Dalmation toadflax <i>Linaria dalmatica</i> (L.) Mill.	10
Common burdock <i>Arctium minus</i> (Hill) Bernh.	11
Jointed goatgrass <i>Aegilops cylindrica</i> Host.	12
Wild proso millet <i>Panicum miliaceum</i> L.	13
Marsh sowthistle <i>Sonchus arvensis</i> L. ssp. <i>uliginosus</i> (Bieb.) Nyman	14
Houndstongue <i>Cynoglossum officinale</i> L.	15
Dyer's woad <i>Isatis tinctoria</i> L.	16
Scotch thistle <i>Onopordum acanthium</i> L.	17
Plumeless thistle <i>Carduus acanthoides</i> L.	18
Bull thistle <i>Cirsium vulgare</i> (Savi) Tenore	19
Yellow starthistle <i>Centaurea solstitialis</i> L.	20
Wild licorice <i>Glycyrrhiza lepidota</i> Pursh	21
Common St. Johnswort <i>Hypericum perforatum</i> L.	22
Tansy ragwort <i>Senecio jacobaea</i> L.	23
Quackgrass <i>Agropyron repens</i> (L.) Beauv.	24
Perennial pepperweed <i>Lepidium latifolium</i> L.	25
Skeletonleaf bursage <i>Ambrosia tomentosa</i> Nutt.	26
Black henbane <i>Hyoscyamus niger</i> L.	27
Meadow deathcamas <i>Zigadenus venenosus</i> S. Wats.	28
Halogeton <i>Halogeton glomeratus</i> (Stephen ex Bieb.) C.A. Mey.	29
Wild oats <i>Avena fatua</i> L.	30
Marijuana (Hemp) <i>Cannabis sativa</i> L.	31

The description of the individual weed is on the reverse side of the card.



#1
LEAFY SPURGE
(*Euphorbia esula* L.)

GROWTH HABIT: Perennial, erect, up to 3' tall, spreading by seed or **creeping roots**.

LEAVES: Alternate, **long, narrow**, ¼" wide and 2" long, usually drooping.

STEMS: Branched near top, hairless, **entire plant contains milky sap**.

FLOWERS: Inconspicuous, surrounded by **large heart shaped floral leaves** which turn **yellow-green** near maturity.

ROOTS: **Brown, numerous pink buds**, deep, spreading, very persistent.

OTHER: Grows in nearly all soil types and habitats. Seed is thrown to 20' by exploding seed capsule.

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#2
MUSK THISTLE
(Carduus nutans L.)

GROWTH HABIT: Biennial, or winter annual, erect up to 7' tall. Freely branching. **Rosette formed 1st year, flowering stem elongates 2nd year.**

LEAVES: **Dark green with light midrib, hairless on both sides,** long sharp spines.

STEM: **Hairless.**

FLOWER: Solitary, terminal, **nodding heads, 1½" to 3" diameter, deep rose to violet to purple.**

ROOTS: Fleshy **taproot**, hollow near ground surface.

SEEDS: Can be in excess of 20,000 per plant with 90% viable. 90% may germinate in first two years. Seeds may germinate after 10 years in soil.

OTHER: **Reproduce by seed only.**

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#3

HOARY CRESS (WHITETOP)
(*Cardaria draba* (L.) Desv.)

GROWTH HABIT: Perennial herb, up to 24" tall, erect, **becoming lodged with age.**

LEAVES: Alternate, lance-shaped and slightly irregular, **greyish-green, base of upper leaves clasping stem.**

STEMS: Stoutish, branched toward top.

FLOWERS: Small, white, 4 petals; numerous flower branches and dense flowers give plant a **dense, white, flat-topped appearance.**

ROOTS: **Extensive** horizontally and vertically, **frequent shoots arising from root stocks.**

SEEDS: Reddish-brown, granular, egg-shaped, contained in heart-shaped pods.

OTHER: **Flowers early** (April and May), **reproduces by seeds, root stocks and creeping roots.**

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#4
RUSSIAN KNAPWEED
(*Centaurea repens* L.)

GROWTH HABIT: Perennial herb, up to 3 ft. tall, erect, may be in dense clumps. Greyish color.

LEAVES: Alternate, simple, of **several types:**
Upper leaves — small, narrow, unbroken edge;
Stem leaves — intermediate in size, slight toothed margins; **Basal leaves** — deeply notched.

STEMS: Numerous branched, each ending with a single flower.

FLOWER HEAD: Single, **terminal, lavender, thistle like, scaly seed head.**

ROOTS: **Dark brown to black and heavily scaled.**

SEEDS: Flattened, ivory colored, **retained in cup-shaped seed heads.**

OTHER: Leaves and stems covered with short stiff hairs giving **plant an appearance of knap.** Spreads by seeds and creeping rootstocks.

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#5
CANADA THISTLE
(Cirsium arvense L.)

GROWTH HABIT: Perennial, erect, up to 4 ft. tall.

LEAVES: Varies from **light to dark green, oblong or lance shaped**, deeply cut, spiny toothed margins (some may be smooth); slightly hairy below. Tremendous leaf variability.

STEM: Smooth to **slightly hairy**, branched at top.

FLOWER: **Small bristly clusters**, $\frac{3}{8}$ to $\frac{5}{8}$ inch in diameter, light lavender to deep rose purple. Plants are male or female.

ROOTS: Extensive, fleshy, **creeping rootstocks**.

SEEDS: Smooth, light to dark brown, tipped by a cupped conical point, approx. $\frac{1}{8}$ " long.

OTHER: Reproduces by seed and creeping rootstocks.

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in cooperation with
SANDOZ CROP PROTECTION CORP.

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#6
FIELD BINDWEED
(Convolvulus arvensis L.)

GROWTH HABIT: Perennial **vine**, reproducing from seeds and roots.

LEAVES: Alternate, simple, **arrowhead-shaped, rounded or blunt tipped.**

STEM: **Prostrate, twining and mat-forming**, up to 10 ft. long.

FLOWER: **Funnel-shaped**, pale pink to white, up to 1 in. wide; **two small scale-like bracts** attached below flower on flower stem.

ROOTS: **Creeping rhizomes**, extensive.

SEEDS: Four per capsule, dark grey to reddish brown, three sided.

OTHER: Seeds viable over 60 years. **Often confused with wild buckwheat which has heart-shaped sharp pointed leaves and tiny inconspicuous flowers.**

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#7
SPOTTED KNAPWEED
(*Centaurea maculosa* Lam.)

GROWTH HABIT: Biennial or short lived perennial, up to 3 ft. tall. **Rosette formed first year, flowering stalk elongates second year.**

LEAVES: Long and divided below, **short and narrow above. Covered with fine hair.**

STEM: Erect with slender wiry branches. **Covered with fine hair.**

FLOWER: Seed heads mostly on branch tips, solitary, to 1" diameter. **Pink to purple, rarely white. Seed head bracts are black tipped,** with 5 to 7 pairs of short feathery appendages.

ROOTS: Taproot not well developed.

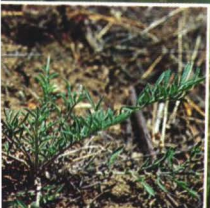
SEEDS: Brownish, $\frac{1}{8}$ " long, notched on one side of base, short tuft of bristles at tip end.

OTHER: Very aggressive, can infest large areas quickly, offers very little big game or livestock forage value.

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#8
DIFFUSE KNAPWEED
(*Centaurea diffusa* Lam.)

GROWTH HABIT: Annual or biennial, bushy, up to 2 ft. tall. **Rosette formed first year, flowering stalk elongates second year.**

LEAVES: **Greyish-green**, alternate, basal leaves whorled, **upper leaves much reduced. Covered with fine hair.**

STEM: **Hairy**, erect, **single main stem** from a rootstock, branched near or above the base.

FLOWER: Solitary, usually white, sometimes pink, rose or lavender; **seedhead bracts end as sharp, rigid spines.**

ROOTS: Elongated taproot.

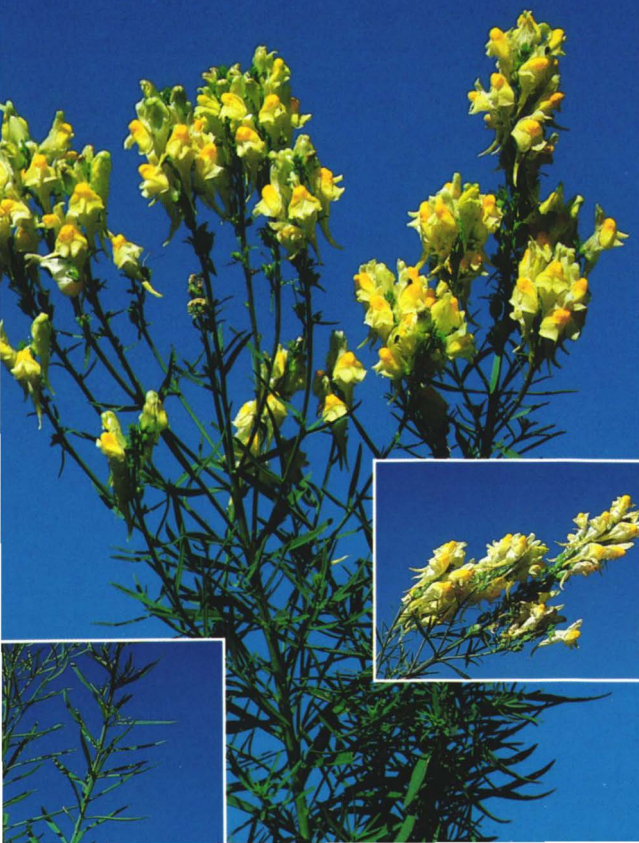
SEEDS: Oblong, dark brown or grey with **longitudinal lines.**

OTHER: May seriously reduce productive potential of infested rangelands.

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#9
YELLOW TOADFLAX
(*Linaria vulgaris* L.)

GROWTH HABIT: Perennial, often over 3 ft. tall.

LEAVES: **Long and narrow**, numerous, pale green, **smooth and pointed**, attached directly to the stem.

STEM: Smooth, erect and sometimes branched.

FLOWER: Snapdragon type, **1 to 1½ inches long with spur, bright yellow** with deep orange center.

ROOTS: Woody, vigorous, well branched with many laterals.

SEEDS: Round, ½ inch in diameter, dark brown to black with a papery circular wing.

OTHER: **Spreads by seeds and creeping roots.** Also called "Butter-and-eggs."

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#10

DALMATION TOADFLAX
(*Linaria dalmatica* (L.) Mill.)

GROWTH HABIT: Perennial, often over 3 ft. tall, erect.

LEAVES: Light green, alternate, **broad, heart-shaped**, clasping the stem.

STEM: Branching, light green, smooth and **leafy**.

FLOWERS: Snapdragon type, **bright yellow**, tinged with orange, **to 1½" long with long spur**, born in upper leaf axils.

ROOTS: Vigorous, deep and extensive, **creeping roots**.

SEEDS: Numerous, irregularly angled.

OTHER: Spread by seed and creeping roots.

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#11

COMMON BURDOCK
(*Arctium minus* (Hill) Bernh.)

GROWTH HABIT: Biennial, reproducing by seed only. **Rosette formed 1st year, flowering stalk elongates 2nd year.**

STEMS: Rough, hairy, **somewhat grooved**, often grow over 5 ft. tall.

LEAVES: Hairy, alternate; **BASAL** — large, heart-shaped, **rhubarb like**; **UPPER** — more oval shaped. **Dull green above, greyish underneath.**

FLOWERS: Numerous, to 1" broad, clustered, **purple**; seedheads covered with **hooked spines, forming a bur at maturity.**

ROOTS: Large fleshy **taproot.**

SEEDS: Rough, mottled brown, somewhat flattened, slightly ridged.

OTHER: Common burdock thrives in shade and most fertile soils.

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WYOMING WEED and PEST COUNCIL
in cooperation with
FARMER'S COOPERATIVE ASSOC.,
Gillette, WY.

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#12
JOINTED GOATGRASS
(*Aegilops cylindrica* Host.)

GROWTH HABIT: **Winter annual**, spread by seed only. Erect.

LEAVES: Alternate, simple, auricles present at base of blade. Can be **smooth or hairy** and **may have occasional hairs extending from margins of leaf blade.**

STEMS: Up to 30" tall, branched at base to give tufted appearance.

FLOWERS: The **spike (seed head) is cylindrical**, more than 10 times as long as it is wide. 2 to 12 spikelets (joints) per spike, **½" long**. Spikelets awned with **uppermost spikelets having especially long awns.** At maturity spikelets separate and look like wheat stems.

ROOTS: Shallow, fibrous.

SEEDS: 1 to 3 per spikelet.

OTHER: Reduces grain yields and can be a contaminant in winter wheat, reducing prices.

Produced by:

WYOMING WEED and PEST COUNCIL

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#13
WILD PROSO MILLET
(*Panicum miliaceum* L.)

GROWTH HABIT: **Annual**, up to 6' tall (to height of crop). Reproduces by seed only.

LEAVES: **Up to ¾" wide**, smooth to somewhat hairy on both surfaces. **Leaf sheaths have long spreading hairs.**

STEMS: Erect, branching, hairy.

FLOWERS: **A panicle 6" to 12" wide** often **not fully extended from leaf sheath.** Spikelets composed of the seed and surrounding glumes.

ROOTS: Fibrous.

SEEDS: **Smooth, oval, olive brown to black**, appears to be striped, about ⅛" long.

OTHER: Seeds germinate throughout the growing season. A problem in many spring seeded row crops and alfalfa.

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#14
MARSH SOWTHISTLE
(*Sonchus arvensis* L. ssp. *uliginosus*
(Bieh.) Nyman)

GROWTH HABIT: Perennial, up to 4 ft. tall.

LEAVES: **Prickly serrations on margins**, may be deep lobed, narrow at base. **Upper leaves clasp stem.** Alternate, usually crowded on lower ½ of stem.

STEMS: Erect, finely grooved, hollow between joints, **milky juice.**

FLOWERS: **Bright yellow, flat topped**, clustered, 1 to 2 inches in diameter.

ROOTS: **Creeping horizontal roots**, give rise to new shoots at joints. Yellowish white with milky juice.

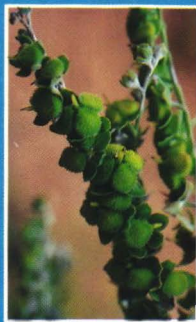
SEEDS: Reddish brown, ⅛" long, 5 to 7 lengthwise ribs.

OTHER: Reproduces by seed and creeping roots.

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in cooperation with
CORDERO MINING COMPANY,
Gillette, WY

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#15
HOUNDSTONGUE
(Cynoglossum officinale L.)

GROWTH HABIT: Biennial, spread by seed. **Rosette is formed on ground 1st year, flowering stalk elongates 2nd year.**

LEAVES: **Velvety** to touch. **Basal** - broad, lance-shaped. **Upper** - narrower, pointed, clasping stem.

STEMS: Heavy, erect, **usually branched above**, to 3' tall.

FLOWERS: **Dark red**, rarely white, $\frac{1}{4}$ " **diameter in terminal clusters.**

ROOTS: Taproot.

SEEDS: Fruit consists of 4 flattened bur-like nutlets, **each $\frac{1}{4}$ " long with short barbed appendages.**

OTHER: Burs attach to hair and fur of animals and are easily transported.

Produced by:

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#15
HOUNDSTONGUE
(*Cynoglossum officinale* L.)

GROWTH HABIT: Biennial, spread by seed. **Rosette is formed on ground 1st year, flowering stalk elongates 2nd year.**

LEAVES: **Velvety** to touch. **Basal** - broad, lance-shaped. **Upper** - narrower, pointed, clasping stem.

STEMS: Heavy, erect, **usually branched above**, to 3' tall.

FLOWERS: **Dark red**, rarely white, 1/4" **diameter in terminal clusters.**

ROOTS: Taproot.

SEEDS: Fruit consists of 4 flattened bur-like nutlets, **each 1/4" long with short barbed appendages.**

OTHER: Burs attach to hair and fur of animals and are easily transported.

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#16
DYER'S WOAD
(Isatis tinctoria L.)

GROWTH HABIT: Biennial or perennial up to 3 ft. tall. Spreads by seed. **Rosette formed 1st year, flowering stem elongates 2nd year.**

LEAVES: Basal rosette leaves are long with soft fine hairs. Stem leaves alternate, **have short basal lobes clasping the stem** and without hair.

STEMS: Woody, upper portion is branched.

FLOWERS: **Small, yellow**, 4 petals $\frac{1}{8}$ -inch across.

SEEDS: Plant has many, slightly pear-shaped, winged, **black seed pods $\frac{1}{2}$ " long** that hang like ornaments. Each pod contains one seed.

OTHER: Formerly cultivated in Europe as a source of blue dye.

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#17
SCOTCH THISTLE
(Onopordum acanthium L.)

GROWTH HABIT: Biennial, sometimes annual, erect, up to 8 ft. tall. **Rosette formed first year, flowering stem elongates second year.**

LEAVES: Large, coarsely lobed, **hairy on both sides, velvety gray appearance.** Margins lined with sharp conspicuous spines. Basal leaves up to 2 ft. long and 1 ft. wide.

STEMS: Erect, branching, **spiny leaf wings extend down onto stem,** covered with dense fine hairs.

FLOWER: Solitary, terminal, 1 to 2 inches in diameter, violet to reddish colored. Bracts spine tipped.

ROOTS: **Large fleshy taproot.**

SEEDS: Deep brown to black, distinctly wrinkled, 3/16 in. long.

OTHER: **Reproduce by seed only.** Dense strands may be impenetrable to livestock.

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#18
PLUMELESS THISTLE
(*Carduus acanthoides* L.)

GROWTH HABIT: Biennial, sometimes annual, erect, up to 8 ft. tall. **Rosette formed first year, flowering stem elongates second year.**

LEAVES: **Dark green with a light midrib, hair only on the underside, leaf margin with sharp spines.**

STEMS: To 4 ft. tall, erect, **winged to flowering heads.**

FLOWER: Solitary, terminal or clusters of 2 to 5. Narrow seedhead bracts spine tipped. **Reddish - purple blooms ½ to 1 inch diameter.**

ROOTS: Stout fleshy taproot.

SEEDS: Striped lengthwise, slightly curved, with a protrusion at one end.

OTHER: Reproduce by seed only.

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#19
BULL THISHLE
(Cirsium vulgare (Savi) Tenore)

GROWTH HABIT: Biennial, erect, many spreading branches. **Rosette formed first year, flowering stem elongates second year.**

LEAVES: **Green, sparsely hairy, with short appressed prickles on the surface, cottony below.** Sharp spines on the margins.

STEMS: Stout, 2 ft. to 5 ft. tall with spiny wings from leaves.

FLOWER: Terminal, more or less clustered, 1½ to 2 inches wide, flowers dark purple, bracts spine tipped.

ROOTS: Short fleshy taproot.

SEEDS: Straw colored , striped lengthwise with brown or black, a protrusion at one end.

OTHER: Reproduce by seed only.

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#20
YELLOW STARHISTLE
(*Centaurea solstitialis* L.)

GROWTH HABIT: **Annual**, erect, rigid branching stems.

LEAVES: **Basal leaves deeply lobed, upper leaves not lobed, small, sharply pointed.**

STEMS: Rigid, **covered with a cottony fiber**, to 30 inches tall, winged structures.

FLOWER: **Yellow, terminal, flower bracts are tipped with straw-colored, $\frac{3}{4}$ inch thorn.**

ROOTS: Taproot.

SEEDS: Smooth, light-colored, often darker mottled, $\frac{1}{8}$ inch long, notched just above the base.

OTHER: **Causes "chewing disease" in horses.**

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#21
WILD LICORICE
(Glycyrrhiza lepidota Pursh)

GROWTH HABIT: Perennial, erect, in patches or clumps on moist sites.

LEAVES: **Alternate, compound with 11-19 lance shaped leaflets.**

STEMS: Simple or erect branches toward the top, 1-3 ft. tall.

FLOWER: **Green-white to white**, pea-type in clusters (spikes) on long stems.

ROOTS: Deep, spreading roots capable of vegetative reproduction.

SEEDS: Bean-shaped, $\frac{1}{8}$ inch long, reddish-brown, smooth and dull, contained in a **burlike seed pod to $\frac{3}{4}$ inch long, covered with stout, hooked prickles.**

OTHER: **Spreads by root and seeds.**

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#22
COMMON ST. JOHNSWORT
(*Hypericum perforatum* L.)

GROWTH HABIT: Perennial, erect, numerous branches.

LEAVES: **Opposite, attached directly to stem, 1 inch long, oblong, covered with transparent dots.**

STEMS: Woody at the base, 1 to 3 ft. tall, **rust colored**, with 2 ridges.

FLOWER: **Yellow, ¾ inch diameter, numerous in flat-topped clusters, 5 petals with numerous stamens.**

ROOTS: Branched and deep, some shallow and capable of sending up shoots.

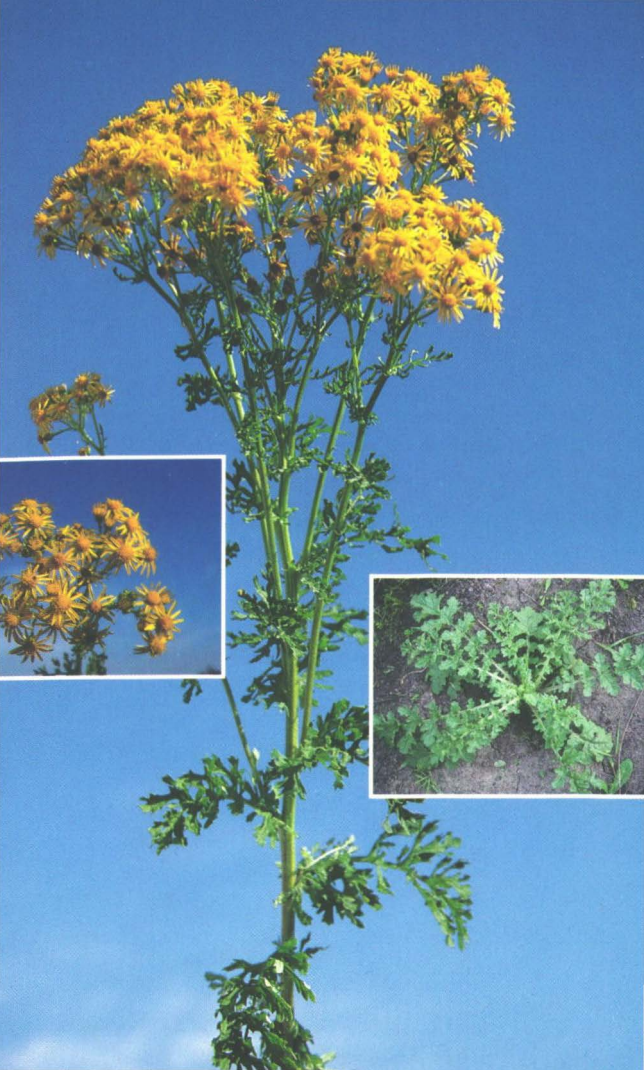
SEEDS: Small, shiny black, with rough texture in a round, pointed, three-part seed pod.

OTHER: Contains a toxic substance which causes white-haired animals to become allergic to strong sunlight.

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#23
TANSY RAGWORT
(*Senecio jacobaea* L.)

GROWTH HABIT: Biennial or short-lived perennial, erect, branched near top. **Reproduces by seed only.**

LEAVES: Alternate, **deeply lobed with irregular margins, terminal lobe larger than lateral ones**, cobwebby hairs in early growth stages.

STEMS: Simple, usually single, to 6 ft. tall.

FLOWER: **Flower heads yellow, numerous, in clusters, about 1 inch in diameter.**

ROOTS: Small to medium taproot.

SEEDS: Small, striped, with a protrusion at one end.

OTHER: **Toxic to cattle and horses producing irreversible liver damage.**

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#24
QUACKGRASS
(*Agropyron repens* (L.) Beauv.)

GROWTH HABIT: Erect perennial grass, reproducing from **seed and creeping rhizomes.**

LEAVES: Auricles present: blade soft, flat, may be covered with soft hair. Ligule 0.5mm long. Small leaf constriction often present near the point of the leaf.

STEMS: Culms 1 to 3 feet tall, erect, smooth.

ROOTS: Rhizomes **yellowish-white, sharp-pointed, rooting at nodes only.**

INFLORESCENCES: A spike up to 10 inches long, composed of two rows of spikelets born flat-wise to the stem.

SEEDS: Contained in spikelets, **awnless or with short straight awns.**

OTHER: Roots can penetrate hard soils, tubers, and roots of other plants.

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#25
PERENNIAL PEPPERWEED
(*Lepidium latifolium* L.)

GROWTH HABIT: Erect perennial, numerous stems, spreading by **seed and deep-seated rootstocks.**

LEAVES: Alternate, lance shaped, bright green to gray-green, waxy, smooth to toothed margins, basal leaves larger than upper leaves.

STEMS: Branched, smooth, waxy, 1-3 feet tall.

FLOWER: Raceme of **small white flowers in dense clusters near branch ends.**

ROOTS: Deep-seated and spreading.

SEEDS: Small, rounded, flattened, slightly hairy, 1/16 inch long, reddish brown.

OTHER: Deep roots make it difficult to control.

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#26
SKELETONLEAF BURSAGE
(*Ambrosia tomentosa* Nutt.)

GROWTH HABIT: Perennial, bushy, **reproducing by seed and creeping rootstocks.**

LEAVES: Alternate, **under surface covered with minute white hairs. Upper surface smooth, green, oval to lance-shaped, deeply segmented and coarsely toothed.**

STEMS: Branched, bushy, 4-18 inches tall.

FLOWER: Male flower clusters yellow, on solitary, elongated, terminal branches. Female flowers green, inconspicuous, formed in pairs in leaf axils below male flowers.

ROOTS: Extensive creeping rootstocks.

SEEDS: One or more achenes in a light brown bur with conical spines.

OTHER: Native plant of the plains region.

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#27
BLACK HENBANE
(Hyoscyamus niger L.)

GROWTH HABIT: Erect, bushy, annual or biennial.

Reproduces by seed only.

LEAVES: Alternate, coarsely toothed, shallowly lobed,
very hairy. Foliage has a foul odor.

STEMS: Erect, branched, 1-3 feet tall.

FLOWER: Large, 1-2 inches in diameter, **brownish-yellow with a purple center and purple veins.**
Flowers from upper leaf axils.

ROOTS: Medium taproot.

SEEDS: Tiny, black; hundreds in 1 inch long
pineapple-shaped or vase-shaped seed capsules.

OTHER: All parts of this plant are toxic.

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#28
MEADOW DEATHCAMAS
(*Zigadenus venenosus* S. Wats)

GROWTH HABIT: Erect, **grass-like**, native perennial, reproducing from bulbs and seed.

LEAVES: **Five to six basal, grass-like, V-creased and unbranched.**

STEMS: Simple, **single**, to 2 ft, tall.

FLOWER: **White to yellowish terminal cluster.** Meadow deathcamas has an open panicle appearance. Foothills deathcamas (flower inset) has a compacted appearance.

ROOTS: **An underground scaly bulb.**

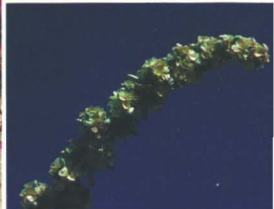
SEEDS: Rough, brown, in a three part seed capsule.

OTHER: Poisonous, but losses can be reduced by turning onto pasture after abundant green forage is available.

Produced by:

WYOMING WEED and PEST COUNCIL

PHOTOS BY TOM WHITSON AND ROY REICHENBACH



#29

HALOGETON

(*Halogeton glomeratus* (Stephen ex Bieb.) C.A. Mey)

GROWTH HABIT: Annual, erect, many stems. Blueish green in spring, turning yellow or red in fall.

Reproduces by seed only.

LEAVES: Alternate, in **bunches along the stem, fleshy, tube-like, ending abruptly and tipped with delicate needle-like spine.** Tufts of cottony hairs at leaf attachment.

STEMS: Many branched from base, spreading then becoming erect, to 18 inches tall. **Usually red in color.**

FLOWER: Green, inconspicuous, born in leaf axil.

ROOTS: Fibrous.

SEEDS: Two types: Black, which germinate during first growing season after produced and brown, which are dormant but viable for several years.

OTHER: Toxic to livestock, especially sheep, from high oxalate content.

Produced by:

WYOMING WEED and PEST COUNCIL

PHOTOS BY TOM WHITSON AND ROY REICHENBACH



#30
WILD OATS
(*Avena fatua* L.)

GROWTH HABIT: Annual grass, erect. **Reproduces by seed only.**

LEAVES: Sheaths open, ligule membranous. Leaf to 5/8 inches wide. **Seedling leaves twist counter clockwise.**

STEMS: Simple, hollow, in small tufts, to 4 feet tall.

INFLORESCENCES: Open panicle 4 to 18 inches long.

SPIKELET: Drooping, with 2 to 3 long black awns attached to the florets.

SEEDS: Yellow to black, oval, 1/4 to 1/2 inch long, usually hairy. **Awns twisted and bent to form right angles at maturity.**

ROOTS: Fibrous.

OTHER: A serious problem in spring seeded small grain.

Produced by:

WYOMING WEED and PEST COUNCIL

PHOTOS BY TOM WHITSON AND ROY REICHENBACH



3 1
MARIJUANA (HEMP)
(Cannabis sativa L.)

GROWTH HABIT: Annual, erect, bushy, unless crowded.

Male and Female plants: reproduces by seed only.

LEAVES: Opposite but alternate near top, **palmately divided with an odd number (3-9) of hairy leaflets with notched edges.**

STEMS: Simple or sparingly branched to 10 feet tall, coarse, **somewhat grooved, rough and hairy.** Hairs on the upper parts exuding a sticky resin with a characteristic narcotic odor.

FLOWER: Male plant - hairy, small green flowers, turning yellow, in **compound racemes or panicles in the axils of the upper leaves:** Female plant - hairy, **small dark-green flowers in spike like clusters, without petals, in the leaf axils.**

ROOTS: Taproot much-branched.

SEEDS: An achene about 4 mm. long, oval to round, yellow to olive brown in color.

OTHER: IF LOCATED NOTIFY LOCAL LAW ENFORCEMENT IMMEDIATELY.

Produced by

WYOMING WEED and PEST COUNCIL
IN COOPERATION WITH
BUREAU OF LAND MANAGEMENT,
MONTANA STATE OFFICE

PHOTOS BY ROY REICHENBACH